

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636812

Luminaire Tested: GWS-SA4B-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

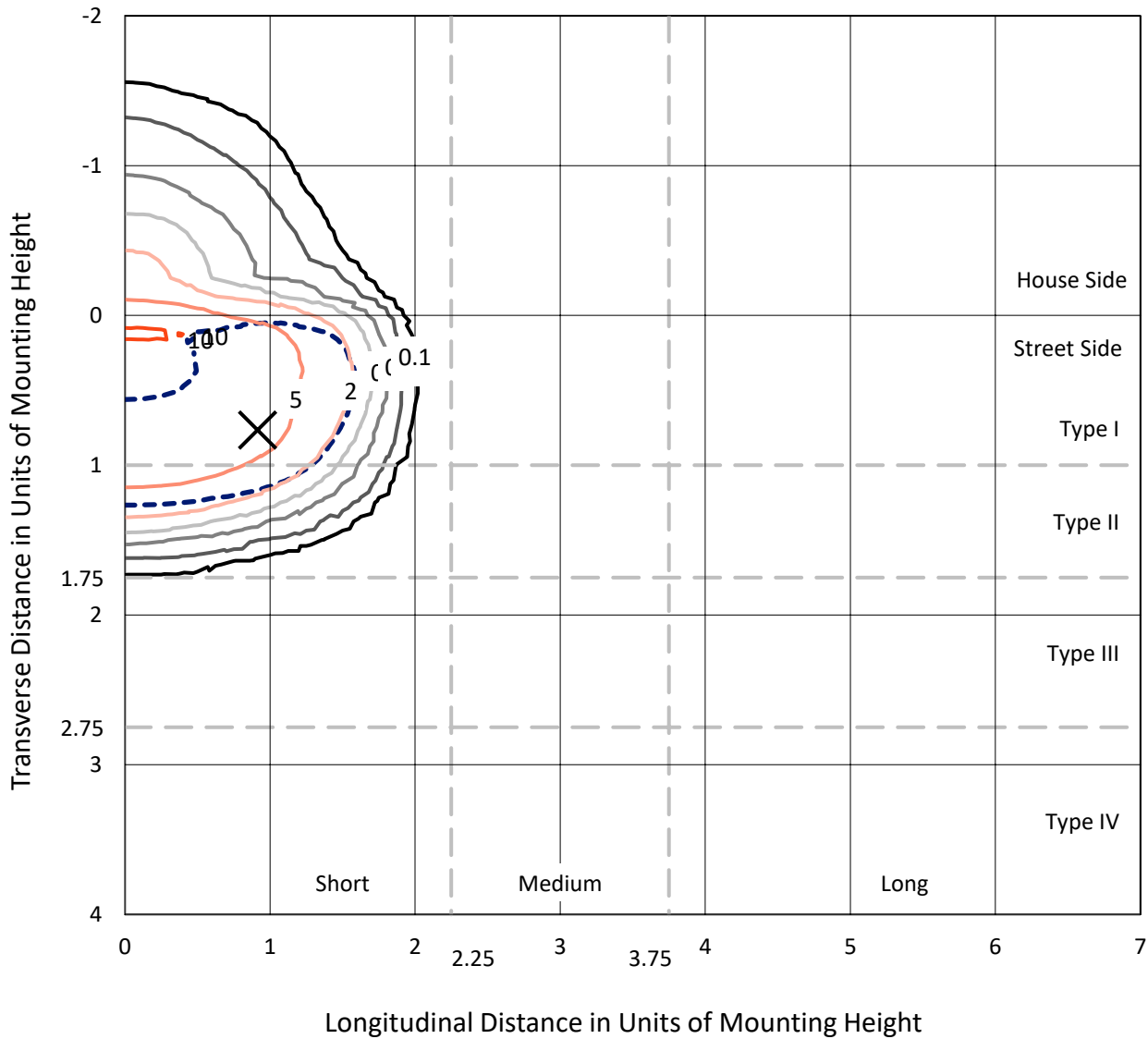
Lumens per Lamp: N/A  
Luminaire Lumens: 11151.1 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

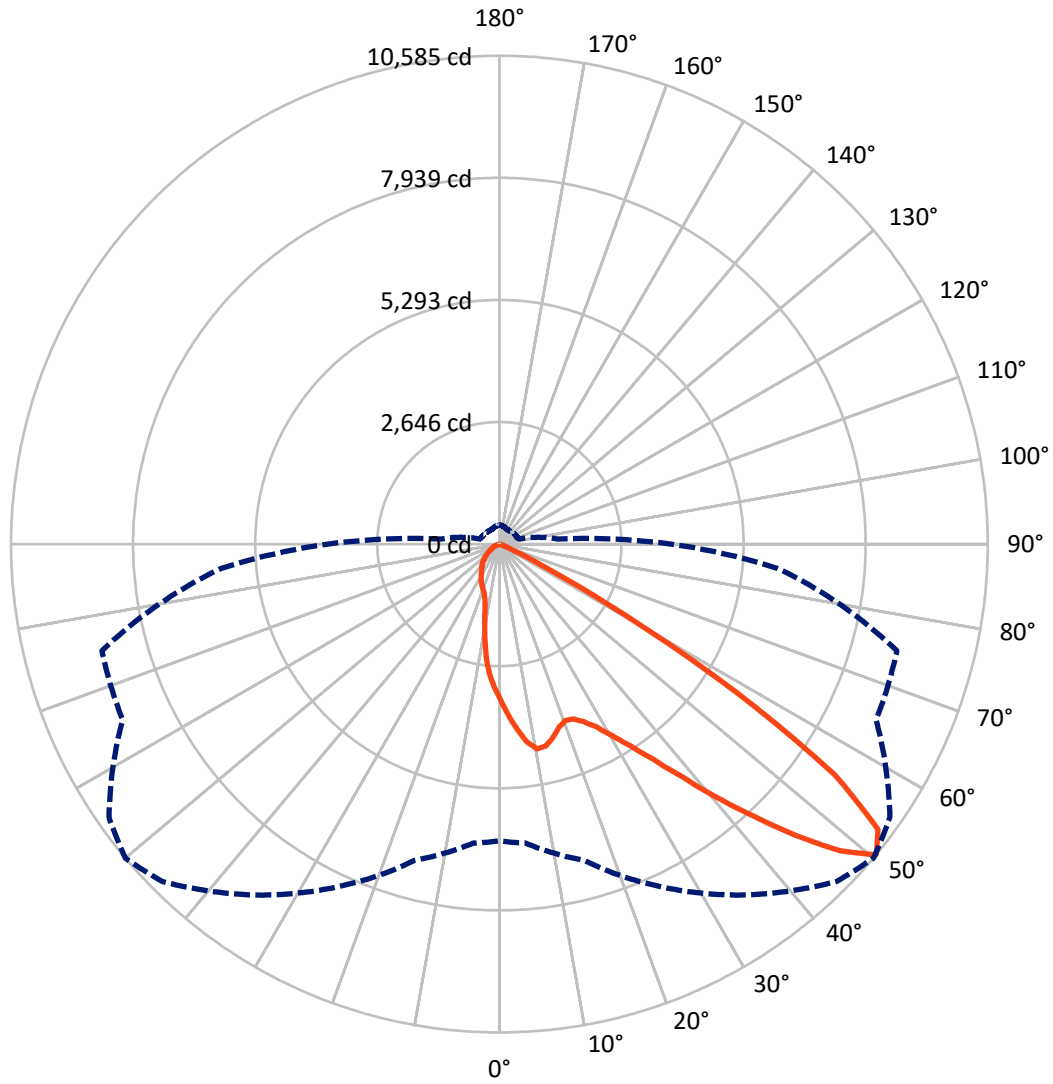
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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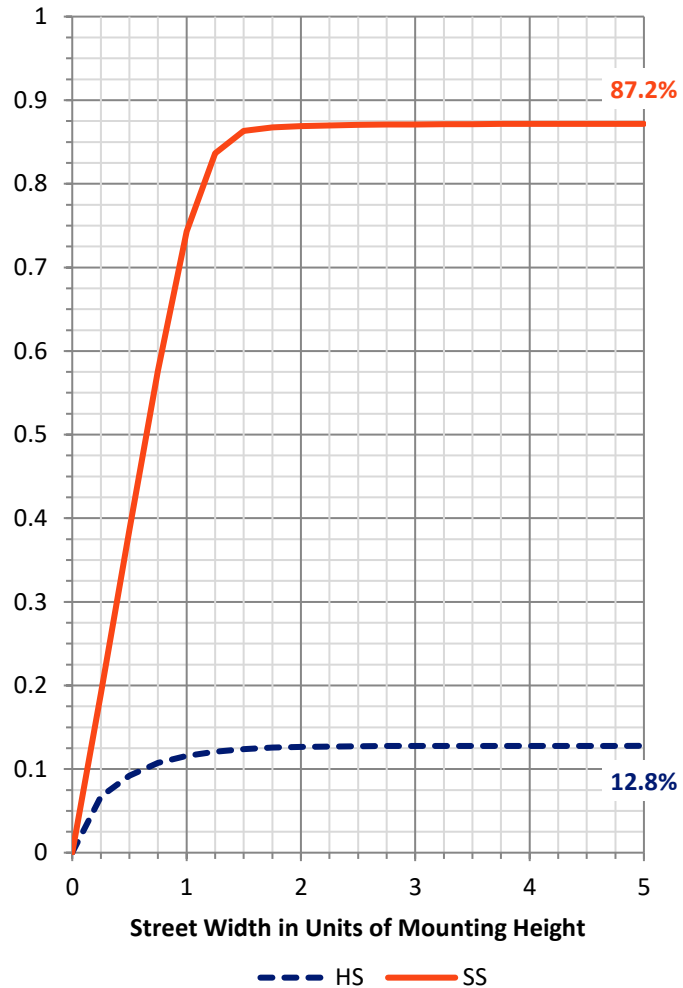
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1432.7	0.0	1432.7
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	9718.3	0.0	9718.3
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	11151.1	0.0	11151.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.4	2.8
10°-20°	808.6	7.3
20°-30°	1334.4	12.0
30°-40°	2202.1	19.7
40°-50°	3484.2	31.2
50°-60°	2638.0	23.7
60°-70°	330.2	3.0
70°-80°	37.3	0.3
80°-90°	2.8	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11151.1	100.0
0°-180°	11151.1	100.0

**Coefficient of Utilization**



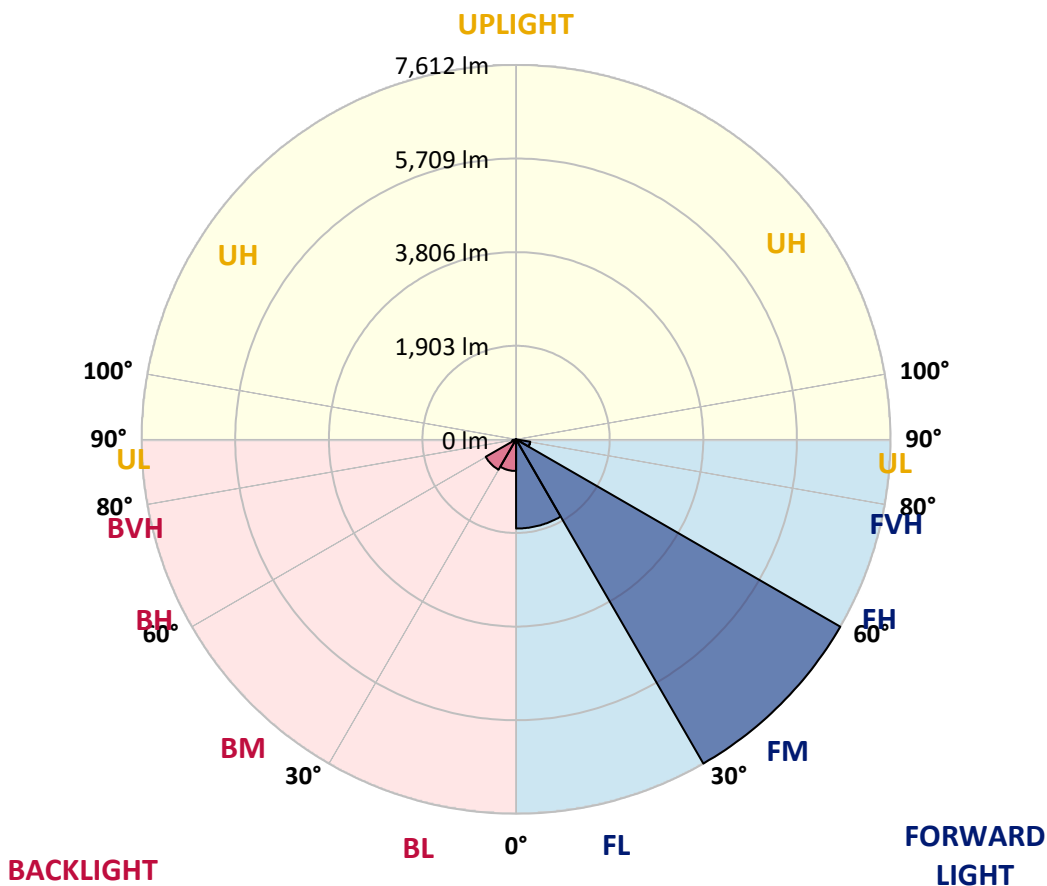
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1813.3	16.3			
FM (30°-60°)	7611.8	68.3			
FH (60°-80°)	291.9	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	643.1	5.8	B2/1000		
BM (30°-60°)	712.5	6.4	B1/1000		
BH (60°-80°)	75.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3
2.5°	3849.6	3880.4	3871.9	3831.5	3788.0	3757.2	3709.5	3694.6	3586.4	3511.0	3431.4
5°	4314.5	4324.0	4313.4	4264.6	4188.2	4114.9	4036.4	3990.8	3809.3	3645.8	3479.2
7.5°	4425.9	4414.2	4434.4	4458.8	4448.2	4416.4	4333.6	4283.7	4067.2	3800.8	3548.2
10°	4077.8	4051.2	4126.6	4252.9	4385.6	4535.2	4514.0	4518.3	4318.7	3996.1	3638.4
12.5°	3616.1	3605.5	3661.7	3808.2	4068.2	4407.9	4489.6	4626.5	4549.0	4207.3	3741.3
15°	3413.4	3418.7	3452.6	3545.0	3731.8	4154.2	4350.6	4597.9	4754.9	4412.1	3854.9
17.5°	3444.1	3463.2	3462.2	3493.0	3606.5	3945.1	4174.4	4507.6	4914.1	4647.7	3985.4
20°	3653.2	3672.3	3643.7	3620.3	3658.5	3892.0	4082.0	4416.4	5021.3	4885.5	4123.4
22.5°	3966.3	3988.6	3920.7	3853.8	3829.4	3979.1	4117.1	4379.2	5103.1	5103.1	4246.5
25°	4345.2	4376.0	4271.0	4152.1	4084.2	4162.7	4266.7	4463.1	5186.9	5298.4	4330.4
27.5°	4768.7	4769.8	4679.6	4545.8	4418.5	4428.0	4490.7	4652.0	5279.3	5508.5	4396.2
30°	5245.3	5248.5	5128.5	4968.3	4808.0	4764.5	4817.6	4939.6	5471.4	5772.8	4487.5
32.5°	5860.9	5875.7	5703.8	5468.2	5260.1	5178.4	5209.2	5337.6	5777.0	6103.9	4624.4
35°	6693.0	6708.9	6455.3	6144.3	5813.1	5690.0	5720.8	5850.3	6219.6	6574.1	4843.0
37.5°	7514.5	7535.7	7278.9	6989.1	6534.9	6331.1	6362.9	6486.0	6884.0	7223.7	5193.3
40°	8082.3	8111.0	8031.4	7836.1	7414.7	7147.3	7185.5	7230.1	7615.3	8000.6	5647.5
42.5°	8381.6	8422.0	8455.9	8555.7	8333.9	8109.9	8045.2	8048.4	8359.3	8792.4	6119.9
45°	8399.7	8439.0	8613.0	8998.3	9167.1	9120.4	9002.5	8922.9	8927.2	9319.9	6414.9
47.5°	7815.9	7889.2	8215.0	8969.6	9604.3	9991.7	9932.3	9743.4	9166.0	9354.9	6383.1
50°	6433.0	6505.1	7097.4	8183.2	9285.9	10339.9	10585.0	10331.4	9010.0	8918.7	6055.1
52.5°	4672.1	4679.6	5063.8	6332.1	7995.3	9697.7	10275.1	10250.7	8772.2	8390.1	5607.2
55°	2219.3	2192.8	2624.8	3573.6	5529.7	7843.5	8816.8	9092.8	8434.7	8008.0	5260.1
57.5°	646.4	659.1	851.2	1394.6	2765.9	5012.8	6038.1	6551.8	6923.3	6583.7	4079.9
60°	289.8	290.8	323.7	424.5	921.3	2331.8	3121.5	3757.2	4139.3	3835.8	2024.0
62.5°	210.2	211.2	223.9	239.9	313.1	789.7	1170.7	1560.2	1588.9	1040.1	512.6
65°	175.1	175.1	177.2	177.2	187.9	282.3	355.6	458.5	386.3	286.6	200.6
67.5°	141.2	142.2	144.3	144.3	141.2	141.2	152.8	167.7	179.4	221.8	184.7
70°	110.4	109.3	109.3	110.4	107.2	91.3	98.7	112.5	123.1	173.0	160.3
72.5°	86.0	87.0	86.0	81.7	74.3	54.1	58.4	73.2	78.5	108.3	108.3
75°	64.7	65.8	61.6	46.7	30.8	17.0	22.3	36.1	45.6	53.1	39.3
77.5°	8.5	8.5	6.4	6.4	5.3	6.4	6.4	8.5	12.7	12.7	9.6
80°	1.1	1.1	1.1	2.1	3.2	4.2	4.2	4.2	4.2	5.3	5.3
82.5°	1.1	1.1	1.1	1.1	3.2	3.2	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	1.1	2.1	3.2	3.2	4.2	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	1.1	2.1	3.2	3.2	3.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3	3378.3
2.5°	3383.6	3322.1	3247.8	3196.8	3124.7	3076.9	3009.0	2963.3	2924.1	2893.3	2910.3
5°	3384.7	3287.1	3135.3	3005.8	2864.6	2735.1	2596.1	2486.8	2388.1	2343.5	2367.9
7.5°	3405.9	3265.8	3033.4	2803.1	2532.4	2265.0	2014.5	1810.7	1709.9	1662.1	1677.0
10°	3447.3	3256.3	2919.8	2537.7	2098.3	1733.2	1490.2	1352.2	1295.9	1266.2	1271.5
12.5°	3485.5	3249.9	2772.3	2188.5	1655.7	1344.8	1218.5	1199.3	1211.0	1212.1	1211.0
15°	3537.5	3238.2	2589.7	1829.8	1324.6	1162.2	1165.4	1193.0	1220.6	1229.1	1226.9
17.5°	3592.7	3220.2	2354.1	1485.9	1124.0	1109.1	1146.3	1183.4	1211.0	1215.3	1216.3
20°	3650.1	3183.0	2085.6	1213.1	1030.6	1068.8	1110.2	1137.8	1158.0	1164.3	1166.4
22.5°	3676.6	3104.5	1775.7	1017.9	968.0	1018.9	1049.7	1085.8	1092.1	1068.8	1073.0
25°	3662.8	2971.8	1473.2	886.2	905.3	956.3	1001.9	983.9	957.4	940.4	945.7
27.5°	3619.3	2795.6	1177.1	789.7	838.5	903.2	908.5	888.4	884.1	870.3	874.6
30°	3572.6	2592.9	946.7	712.2	770.6	838.5	822.6	830.0	831.1	815.1	820.4
32.5°	3543.9	2380.7	753.6	660.2	727.0	739.8	771.6	786.5	787.5	750.4	756.8
35°	3553.5	2171.6	637.9	617.7	686.7	683.5	728.1	736.6	675.0	624.1	629.4
37.5°	3630.9	1978.4	572.1	584.8	616.7	641.1	675.0	618.8	605.0	581.6	584.8
40°	3775.3	1813.9	532.8	564.6	568.9	608.2	556.2	563.6	564.6	549.8	553.0
42.5°	3944.1	1677.0	509.5	553.0	542.4	548.7	496.7	511.6	527.5	521.1	522.2
45°	4029.0	1543.2	489.3	512.6	515.8	455.3	443.7	459.6	479.7	482.9	484.0
47.5°	3953.6	1415.9	468.1	454.3	475.5	415.0	401.2	406.5	429.9	442.6	444.7
50°	3723.3	1269.4	436.2	402.3	390.6	372.5	359.8	360.9	387.4	409.7	413.9
52.5°	3399.6	1116.6	384.2	340.7	314.2	328.0	331.1	324.8	349.2	371.5	375.7
55°	3085.4	925.5	304.6	277.0	252.6	282.3	290.8	282.3	289.8	304.6	305.7
57.5°	2172.6	523.3	233.5	229.3	209.1	242.0	255.8	243.1	230.3	239.9	242.0
60°	1007.2	273.8	179.4	179.4	174.1	208.0	231.4	213.3	188.9	193.2	196.4
62.5°	315.2	173.0	131.6	124.2	142.2	177.2	196.4	178.3	149.7	149.7	153.9
65°	178.3	148.6	104.0	95.5	115.7	142.2	153.9	134.8	109.3	107.2	107.2
67.5°	165.6	141.2	92.3	77.5	81.7	91.3	95.5	82.8	75.4	74.3	75.4
70°	136.9	117.8	74.3	53.1	49.9	48.8	50.9	47.8	45.6	46.7	49.9
72.5°	84.9	71.1	46.7	31.8	27.6	26.5	26.5	26.5	25.5	25.5	25.5
75°	30.8	26.5	21.2	15.9	13.8	12.7	12.7	13.8	12.7	11.7	10.6
77.5°	9.6	8.5	8.5	8.5	7.4	6.4	5.3	5.3	4.2	3.2	3.2
80°	5.3	5.3	5.3	5.3	4.2	4.2	3.2	2.1	1.1	1.1	0.0
82.5°	5.3	5.3	5.3	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)